

527, 473

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 January 2004 (22.01.2004)

PCT

(10) International Publication Number
WO 2004/008085 A1

(51) International Patent Classification⁷: **G01F 23/26**

(21) International Application Number:
PCT/GB2003/002761

(22) International Filing Date: 26 June 2003 (26.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0216502.5 17 July 2002 (17.07.2002) GB
0223154.6 7 October 2002 (07.10.2002) GB

(71) Applicant (for all designated States except US):
EPICHEM LIMITED [GB/GB]; Power Road, Bromborough, Wirral, Merseyside CH62 3QF (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **WILLIAMS, Graham** [GB/GB]; "Greygarth", Wood Lane, Neston, South Wirral CH64 6QZ (GB). **ODEDRA, Rajesh** [GB/GB]; 221 Manchester Road, Altringham, Cheshire WA14 5NU

(GB). **CUNNING, Hugh** [GB/GB]; 36 Strawberry Fields, Great Broughton, Chester CH3 5YF (GB). **SMITH, Lindsay** [GB/GB]; 2 Goldacre Close, Whitnash, Coventry CV31 2TW (GB).

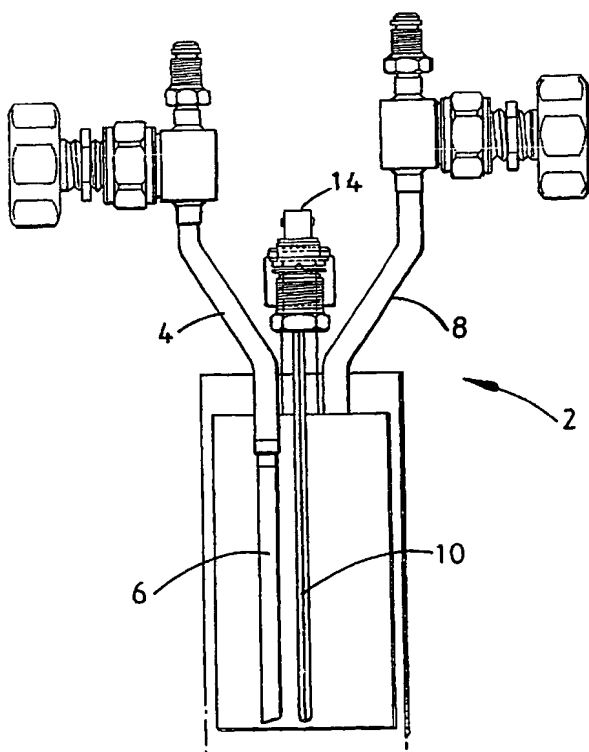
(74) Agents: **LYONS, Andrew, Jon et al.**; Roystons, Tower Building, Water Street, Merseyside, Liverpool L3 1BA (GB).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

[Continued on next page]

(54) Title: A METHOD AND APPARATUS FOR MONITORING LIQUID LEVELS WITHIN A VESSEL



(57) Abstract: A method and apparatus for monitoring liquid levels within a vessel, particularly the level of an organometallic compound within a bubbler. A metallic probe (10) is hermetically sealed within a mounting that is sealed within the port of the vessel (2). The part of the probe that is sealed within the mounting is made of a nickel alloy and encased in a glass material by a metal to glass matched seal.

WO 2004/008085 A1